

SEQUENCE LISTING



B
8/10/90

<110> Pinsky, David J.
Stern, David
Rose, Eric
Solomon, Robert A.
Schmidt, Ann Marie

<120> METHODS FOR TREATING AN ISCHEMIC DISORDER AND IMPROVING
STROKE OUTCOME

<130> 51917-B

<140> 09/053,871

<141> 1998-04-01

<160> 22

<170> PatentIn Ver. 2.1

<210> 1

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 1

tacagttcct ctannncccc ctggggtac

29

<210> 2

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of

174

79

the standard amino acids other than serine.

<400> 2

tacagttcct ctannncccc ctggggtaca

30

<210> 3

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 3

tacagttcct ctannncccc ctggggtaca a

31

<210> 4

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 4

gtacagttcc tctannnccc cctggggtac

30

<210> 5

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

79

80

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 5

gtacagttcc tctannnccc cctggggtac a

31

<210> 6

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 6

gtacagttcc tctannnccc cctggggtac aa

32

<210> 7

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 7

agttacagtt cctctannnc cccctggggt ac

32

<210> 8

<211> 33

<212> DNA

<213> Artificial Sequence

780
81

<220>

<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 8

agttacagtt cctctannnc cccctggggt aca

33

<210> 9

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 9

agttacagtt cctctannnc cccctggggt acaa

34

<210> 10

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than aspartic acid
and cysteine.

<400> 10

attcatgtta gtannntaac gcgaagacc

29

<210> 11

481

82

<211> 30
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than aspartic acid
and cysteine.

<400> 11

attcatgtta gtannntaac gcgaagacct

30

<210> 12

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than aspartic acid
and cysteine.

<400> 12

attcatgtta gtannntaac gcgaagacct t

31

<210> 13

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than aspartic acid
and cysteine.

1582

83

<400> 13

tattcatggt agtannntaa cgcgaagacc

30

<210> 14

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 14

tattcatggt agtannntaa cgcgaagacc t

31

<210> 15

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 15

tattcatggt agtannntaa cgcgaagacc tt

32

<210> 16

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

83

84

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 16

ttattcatgt tagtannnta acgcaagac c

31

<210> 17

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 17

ttattcatgt tagtannnta acgcaagac ct

32

<210> 18

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 18

ttattcatgt tagtannnta acgcaagac ctt

33

<210> 19

184
85

<211> 33
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than histidine and
cysteine.

<400> 19

ttacattgac gacggnnnac acaactttga cca

33

<210> 20

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide Primer for producing Factor IXmi.

<400> 20

gtacagttcc tctacgaccc cctggggtac

30

<210> 21

<211> 461

<212> PRT

<213> Homo Sapien

<400> 21

Met Gln Arg Val Asn Met Ile Met Ala Glu Ser Pro Gly Leu Ile Thr
1 5 10 15

Ile Cys Leu Leu Gly Tyr Leu Leu Ser Ala Glu Cys Thr Val Phe Leu
20 25 30

Asp His Glu Asn Ala Asn Lys Ile Leu Asn Arg Pro Lys Arg Tyr Asn
35 40 45

Ser Gly Lys Leu Glu Glu Phe Val Gln Gly Asn Leu Glu Arg Glu Cys
50 55 60

85
86

Met	Glu	Glu	Lys	Cys	Ser	Phe	Glu	Glu	Ala	Arg	Glu	Val	Phe	Glu	Asn	65	70	75	80
Thr	Glu	Arg	Thr	Thr	Glu	Phe	Trp	Lys	Gln	Tyr	Val	Asp	Gly	Asp	Gln	85	90	95	
Cys	Glu	Ser	Asn	Pro	Cys	Leu	Asn	Gly	Gly	Ser	Cys	Lys	Asp	Asp	Ile	100	105	110	
Asn	Ser	Tyr	Glu	Cys	Trp	Cys	Pro	Phe	Gly	Phe	Glu	Gly	Lys	Asn	Cys	115	120	125	
Glu	Leu	Asp	Val	Thr	Cys	Asn	Ile	Lys	Asn	Gly	Arg	Cys	Glu	Gln	Phe	130	135	140	
Cys	Lys	Asn	Ser	Ala	Asp	Asn	Lys	Val	Val	Cys	Ser	Cys	Thr	Glu	Gly	145	150	155	160
Tyr	Arg	Leu	Ala	Glu	Asn	Gln	Lys	Ser	Cys	Glu	Pro	Ala	Val	Pro	Phe	165	170	175	
Pro	Cys	Gly	Arg	Val	Ser	Val	Ser	Gln	Thr	Ser	Lys	Leu	Thr	Arg	Ala	180	185	190	
Glu	Thr	Val	Phe	Pro	Asp	Val	Asp	Tyr	Val	Asn	Ser	Thr	Glu	Ala	Glu	195	200	205	
Thr	Ile	Leu	Asp	Asn	Ile	Thr	Gln	Ser	Thr	Gln	Ser	Phe	Asn	Asp	Phe	210	215	220	
Thr	Arg	Val	Val	Gly	Gly	Glu	Asp	Ala	Lys	Pro	Gly	Gln	Phe	Pro	Trp	225	230	235	240
Gln	Val	Val	Leu	Asn	Gly	Lys	Val	Asp	Ala	Phe	Cys	Gly	Gly	Ser	Ile	245	250	255	
Val	Asn	Glu	Lys	Trp	Ile	Val	Thr	Ala	Ala	His	Cys	Val	Glu	Thr	Gly	260	265	270	
Val	Lys	Ile	Thr	Val	Val	Ala	Gly	Glu	His	Asn	Ile	Glu	Glu	Thr	Glu	275	280	285	
His	Thr	Glu	Gln	Lys	Arg	Asn	Val	Ile	Arg	Ile	Ile	Pro	His	His	Asn	290	295	300	
Tyr	Asn	Ala	Ala	Ile	Asn	Lys	Tyr	Asn	His	Asp	Ile	Ala	Leu	Leu	Glu	305	310	315	320

86
87

Leu Asp Glu Pro Leu Val Leu Asn Ser Tyr Val Thr Pro Ile Cys Ile
 325 330 335

Ala Asp Lys Glu Tyr Thr Asn Ile Phe Leu Lys Phe Gly Ser Gly Tyr
 340 345 350

Val Ser Gly Trp Gly Arg Val Phe His Lys Gly Arg Ser Ala Leu Val
 355 360 365

Leu Gln Tyr Leu Arg Val Pro Leu Val Asp Arg Ala Thr Cys Leu Arg
 370 375 380

Ser Thr Lys Phe Thr Ile Tyr Asn Asn Met Phe Cys Ala Gly Phe His
 385 390 395 400

Glu Gly Gly Arg Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro His Val
 405 410 415

Thr Glu Val Glu Gly Thr Ser Phe Leu Thr Gly Ile Ile Ser Trp Gly
 420 425 430

Glu Glu Cys Ala Met Lys Gly Lys Tyr Gly Ile Tyr Thr Lys Val Ser
 435 440 445

Arg Tyr Val Asn Trp Ile Lys Glu Lys Thr Lys Leu Thr
 450 455 460

<210> 22

<211> 2775

<212> DNA

<213> Homo Sapien

<400> 22

atgcagcgcg tgaacatgat catggcagaa tcaccaggcc tcatcaccat ctgcctttta 60
 ggatatctac tcagtgtga atgtacagtt tttcttgatc atgaaaacgc caacaaaatt 120
 ctgaatcggc caaagaggta taattcaggt aaattggaag agtttggtca agggaacctt 180
 gagagagaat gtatggaaga aaagtgtagt tttgaagaag cacgagaagt ttttgaaaac 240
 actgaaagaa caactgaatt ttggaagcag tatgttgatg gagatcagtg tgagtccaat 300
 ccatgtttta atggcggcag ttgcaaggat gacattaatt cctatgaatg ttggtgtccc 360
 tttggatttg aaggaaagaa ctgtgaatta gatgtaacat gtaacattaa gaatggcaga 420
 tgcgagcagt tttgtaaaaa tagtgctgat aacaagggtg tttgctcctg tactgaggga 480
 tatcgacttg cagaaaacca gaagtcctgt gaaccagcag tgccatttcc atgtggaaga 540
 gtttctgttt cacaaacttc taagctcacc cgtgctgaga ctgtttttcc tgatgtggac 600
 tatgtaaatt ctactgaagc tgaaaccatt ttggataaca tcaactcaaag cacccaatca 660
 tttaatgact tcaactcgggt tgttggtgga gaagatgcca aaccagggtca attcccttgg 720
 caggttggtt tgaatggtaa agttgatgca ttctgtggag gctctatcgt taatgaaaaa 780
 tggattgtaa ctgctgcccc ctgtgttgaa actggtgtta aaattacagt tgctgcaggt 840

1087

88

gaacataata	ttgaggagac	agaacataca	gagcaaaagc	gaaatgtgat	tcgaattatt	900
cctcaccaca	actacaatgc	agctattaat	aagtacaacc	atgacattgc	ccttctggaa	960
ctggacgaac	ccttagtgct	aaacagctac	gttacaccta	tttgcatgac	tgacaaggaa	1020
tacacgaaca	tcttcctcaa	atgttgatct	ggctatgtaa	gtggctgggg	aagagtcttc	1080
cacaaagga	gatcagcttt	agttcttcag	taccttagag	ttccacttgt	tgaccgagcc	1140
acatgtcttc	gatctacaaa	gttcaccatc	tataacaaca	tggtctgtgc	tggtctccat	1200
gaaggaggta	gagattcatg	tcaaggagat	agtgggggac	cccatgttac	tgaagtggaa	1260
gggaccagtt	tcttaactgg	aattattagc	tggggtgaag	agtgtgcaat	gaaaggcaaa	1320
tatggaatat	ataccaaggt	atcccgggat	gtcaactgga	ttaaggaaaa	aacaaagctc	1380
acttaatgaa	agatggattt	ccaagggtta	ttcattggaa	ttgaaaatta	acagggcctc	1440
tcactaacta	atcactttcc	catcttttgt	tagatttgaa	tatatacatt	ctatgatcat	1500
tgctttttct	ctttacaggg	gagaatttca	tattttacct	gagcaaattg	attagaaaaat	1560
ggaaccacta	gaggaatata	atgtgttagg	aaattacagt	catttctaag	ggcccagccc	1620
ttgacaaaat	tgtgaagtta	aattctccac	tctgtccatc	agatactatg	gttctccact	1680
atggcaacta	actcactcaa	ttttccctcc	ttagcagcat	tccatcttcc	cgatcttctt	1740
tgcttctcca	accaaaccat	caatgtttat	tagttctgta	tacagtacag	gatctttggg	1800
ctactctatc	acaaggccag	taccacactc	atgaagaaag	aacacaggag	tagctgagag	1860
gctaaaactc	atcaaaaaca	ctactccttt	tctcttacct	tattcctcaa	tctttttacct	1920
tttccaaatc	ccaatcccca	aatcagtttt	tctctttctt	actccctctc	tccctttttac	1980
cctccatggg	cgtaaaggga	gagatgggga	gcattcattct	gttatacttc	tgtacacagt	2040
tatacatgtc	tatcaaacc	agacttgctt	ccatagtggg	gacttgcttt	tcagaacata	2100
gggatgaagt	aaggtgcctg	aaaagtttgg	gggaaaagtt	tctttcagag	agttaagtta	2160
ttttatatat	ataatatata	tataaaatat	ataatatata	atataaatat	atagtgtgtg	2220
tgtgtatgcg	tgtgtgtaga	cacacacgca	tacacacata	taatggaagc	aataagccat	2280
tctaagagct	tgtatgggta	tggagggtctg	actaggcatg	atttcacgaa	ggcaagattg	2340
gcataatcatt	gtaactaaaa	aagctgacat	tgaccagagc	atattgtact	ctttctaaaa	2400
ataataataa	taatgctaac	agaaagaaga	gaaccgttcg	tttgcaatct	acagctagta	2460
gagactttga	ggaagaattc	aacagtgtgt	cttcagcagt	gttcagagcc	aagcaagaag	2520
ttgaagttgc	ctagaccaga	ggacataagt	atcatgtctc	ctttaactag	cataccccga	2580
agtggagaag	ggtgcagcag	gctcaaaggc	ataagtcatt	ccaatcagcc	aactaagttg	2640
tctttttctg	gtttcgtgtt	caccatggaa	catttttgatt	atagttaatc	cttctatctt	2700
gaatcttcta	gagagttgct	gaccaactga	cgtatgtttc	cctttgtgaa	ttaataaact	2760
ggtgttctgg	ttcat					2775

1188
89